

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				
CHICKASAW COUNTY --- 2.8 NNE IONIA [43.07, -92.46]				
	08/08/10 22:15 CST		0	Thunderstorm Wind (MG 51 kt)
	08/08/10 22:15 CST		0	Source: Mesonet
The road weather information system along U.S. Highway 18 near New Hampton recorded a wind gust of 59 mph.				
FAYETTE COUNTY --- 3.8 NW ARLINGTON [42.79, -91.73]				
	08/08/10 22:56 CST		10K	Thunderstorm Wind (EG 55 kt)
	08/08/10 22:56 CST		0	Source: Broadcast Media
Thunderstorm winds blew down an outbuilding northwest of Arlington along G Avenue.				
WINNESHIEK COUNTY --- DECORAH [43.30, -91.80]				
	08/08/10 23:02 CST		0.25K	Thunderstorm Wind (EG 50 kt)
	08/08/10 23:02 CST		0	Source: Law Enforcement
Trees were blown down in parts of Decorah.				
ALLAMAKEE COUNTY --- WAUKON [43.27, -91.48]				
	08/08/10 23:16 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/08/10 23:16 CST		0	Source: Trained Spotter
Several trees were blown down in the city of Waukon.				
CLAYTON COUNTY --- 0.6 S GUTTENBERG ARPT [42.81, -91.10]				
	08/08/10 23:38 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/08/10 23:38 CST		0	Source: Emergency Manager
Several trees and power lines were blown down, causing a power outage. The outage affected Able and Essman Islands just north of the city of Guttenberg.				
A line of thunderstorms developed in western Iowa ahead of a trough of low pressure in the Central Plains on the afternoon of August 8th. Favorable conditions for severe thunderstorms extended east into southern Wisconsin, which allowed the thunderstorms to propagate through northeast Iowa. Strong winds were observed as these storms passed, which caused various amounts of damage across the area.				
(IA-Z018) FLOYD				
	08/12/10 14:45 CST		0	Heat
	08/12/10 15:15 CST		0	
The combination of very warm temperatures and high dew points led to extreme apparent temperature values across northeast Iowa on the 12th. This caused the automated weather observing equipment at Charles City (Floyd County) to record a maximum apparent temperature of 105 degrees.				
MINNESOTA, Southeast				
(MN-Z086) DODGE				
	08/12/10 11:00 CST		0	Heat
	08/12/10 14:30 CST		0	
The combination of very warm temperatures and high dew points led to extreme apparent temperature values across southeast Minnesota on the 12th. The apparent temperature at Dodge Center (Dodge County) was at or above 105 degrees for three hours in the afternoon.				
DODGE COUNTY --- 2.0 E BERNE [44.17, -92.73]				
	08/13/10 02:20 CST		0.25K	Thunderstorm Wind (EG 50 kt)
	08/13/10 02:20 CST		0	Source: Law Enforcement

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The tops of some trees were snapped off.				
OLMSTED COUNTY --- ORONOCO [44.17, -92.53]				
	08/13/10 02:53 CST		5K	Thunderstorm Wind (EG 60 kt)
	08/13/10 02:53 CST		0	Source: Public
Many large trees were blown down in the city of Oronoco. Damage occurred to the soffit, fascia, siding, and garage door of a home. Also, a camper tumbled and was moved from its original location.				
WABASHA COUNTY --- 1.0 W READS LNDG [44.40, -92.10]				
	08/13/10 03:00 CST		0	Heavy Rain
	08/13/10 06:00 CST		0	Source: Public
Between the hours of 3:00 a.m. and 6:00 a.m. CST, 4.30 inches of rain was measured. In this same time frame, 4.16 inches was measured in Wabasha, 3.81 inches was measured in Theilman, and 3.43 inches was measured at a location 2.5 miles south southeast of Kellogg.				
WABASHA COUNTY --- LAKE CITY [44.45, -92.27]				
	08/13/10 03:16 CST		1.05M	Thunderstorm Wind (EG 65 kt)
	08/13/10 03:20 CST		0	Source: COOP Observer
Hundreds of trees and at least a half dozen power poles were blown down throughout the city of Lake City. Damage was also reported to several homes as well as to a 100,000 bushel grain bin and a dryer at a local business. The grain bin was destroyed.				
WABASHA COUNTY --- 1.0 W READS LNDG [44.40, -92.10]				
	08/13/10 03:30 CST		3K	Thunderstorm Wind (MG 42 kt)
	08/13/10 03:30 CST		0	Source: Public
Despite only measuring a 48 mph gust, several 9 inch diameter trees were blown down, one of which blocked County Road 77. Also, some roofing material was blown off a house.				
OLMSTED COUNTY --- 2.0 N STEWARTVILLE [43.88, -92.48]				
	08/13/10 04:30 CST		5K	Thunderstorm Wind (EG 70 kt)
	08/13/10 04:30 CST		0	Source: Law Enforcement
A semi truck was blown over near the interchange of U.S. Highway 63 and Interstate 90, just north of Stewartville.				
OLMSTED COUNTY --- STEWARTVILLE [43.85, -92.48]				
	08/13/10 04:30 CST		20K	Thunderstorm Wind (EG 70 kt)
	08/13/10 04:35 CST		0	Source: Emergency Manager
Numerous trees were blown down throughout the city of Stewartville. Also, two mobile homes were significantly damaged by uprooted trees in the Southern Hills Mobile Home Community. Phone service was spotty for a time, while parts of the city lost power.				
WINONA COUNTY --- 1.8 E WINONA [44.05, -91.61], 1.9 NW HOMER [44.04, -91.60], 1.9 W HOMER [44.02, -91.61], 1.3 S GOODVIEW [44.05, -91.70], 1.0 ESE GOODVIEW [44.06, -91.68], 0.5 N WINONA [44.06, -91.65]				
	08/13/10 05:00 CST		0	Flood (due to Heavy Rain)
	08/13/10 07:00 CST		0	Source: Emergency Manager
Street flooding occurred in the city of Winona after 1.08 inches of rain fell.				
WABASHA COUNTY --- 1.6 ESE BEAR VLY [44.31, -92.42], 2.3 E BEAR VLY [44.31, -92.40], 1.6 NE ZUMBRO FALLS [44.29, -92.41], 1.1 NNE ZUMBRO FALLS [44.29, -92.42]				
	08/13/10 05:08 CST		0	Flood (due to Heavy Rain)
	08/13/10 08:00 CST		0	Source: Law Enforcement
Water was over U.S. Highway 63 north of Zumbro Falls. The cooperative observer from Zumbro Falls reported that 3.20 inches of rain fell between 3:00 a.m. and 6:00 a.m. CST.				
WINONA COUNTY --- PICKWICK [43.98, -91.60]				
	08/13/10 05:25 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	08/13/10 05:25 CST		0	Source: Emergency Manager
Large trees were blown down.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OLMSTED COUNTY --- 3.1 SSE LITTLE VLY [44.04, -92.10], 3.3 SSE LITTLE VLY [44.04, -92.10], 3.3 SSE LITTLE VLY [44.04, -92.11], 3.1 SSE LITTLE VLY [44.04, -92.11]				
	08/13/10 18:15 CST		0	Flood (due to Heavy Rain)
	08/14/10 00:45 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Middle Fork of the Whitewater River out of its banks near the Whitewater State Park on August 13th into the early morning of the 14th. The river exceeded the flood stage by over a foot, cresting at 14.91 feet.				
A very strong line of thunderstorms moved through southeast Minnesota during the early morning hours of August 13th. Strong winds blew down trees and some significant structural damage, while widespread heavy rain amounts of 3 to 4 inches caused some flash flooding, road closures, and rises along rivers, streams and creeks.				
DODGE COUNTY --- 0.7 N HAYFIELD [43.89, -92.87], 4.7 SSW DODGE CENTER ARPT [43.96, -92.88]				
	08/13/10 14:22 CST		0.11M	Tornado (EF1, L: 4.87 mi , W: 140 yd)
	08/13/10 14:46 CST		24K	Source: NWS Storm Survey
The tornado damage path began just south of State Highway 30 west of Hayfield. The tornado did move off to the northeast nearing State Highway 56 before taking a north northwest track until it lifted just south of County Road 6. Damage was noted to soybean and corn fields, numerous trees and limbs were snapped and uprooted, roofing damage occurred to a metal barn/shed, while an old barn was lifted off of its foundation for a complete loss. Also, a local residence had some small beams knocked out from underneath a porch on the front of the house.				
DODGE COUNTY --- DODGE CENTER [44.03, -92.85]				
	08/13/10 14:35 CST		0	Thunderstorm Wind (MG 50 kt)
	08/13/10 14:35 CST		0	Source: AWOS
The automated weather observing equipment at the Dodge Center Airport measured a wind gust of 58 mph.				
OLMSTED COUNTY --- 2.8 ESE SALEM CORNERS [43.96, -92.55]				
	08/13/10 14:37 CST		0	Funnel Cloud
	08/13/10 14:46 CST		0	Source: Other Federal Agency
Air traffic controllers at the Rochester International Airport could see a funnel cloud to the southwest of the airport.				
DODGE COUNTY --- 2.9 SE KASSON [44.00, -92.71]				
	08/13/10 14:50 CST		0	Hail (0.75 in)
	08/13/10 14:50 CST		0	Source: Trained Spotter
OLMSTED COUNTY --- BYRON [44.03, -92.65]				
	08/13/10 15:00 CST		0	Heavy Rain
	08/13/10 18:36 CST		0	Source: Broadcast Media
Heavy rain fell in the city of Byron, with 3.10 inches measured.				
OLMSTED COUNTY --- 1.0 E DOVER [43.97, -92.13]				
	08/13/10 15:30 CST		0	Heavy Rain
	08/13/10 17:47 CST		0	Source: Trained Spotter
Heavy rain fell across the area, with 3.30 inches of rain measured 1 mile east of Dover. In the same time frame, 2.20 inches of rain fell at Chester Woods Park, located 2 miles east of Chester.				
OLMSTED COUNTY --- 2.0 SE ROCK DELL [43.90, -92.62]				
	08/13/10 15:50 CST		0	Funnel Cloud
	08/13/10 15:50 CST		0	Source: Amateur Radio
A funnel cloud was seen near the Dodge County line by spotters and amateur radio operators.				
OLMSTED COUNTY --- 0.7 S ROCK DELL [43.91, -92.65]				
	08/13/10 16:40 CST		0	Tornado (EF0, L: 0.02 mi , W: 25 yd)
	08/13/10 16:40 CST		0	Source: Fire Department/Rescue
No damage was found after the tornado touched down briefly in a field.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OLMSTED COUNTY --- 1.5 NNE SIMPSON [43.95, -92.39]				
	08/13/10 17:21 CST		0	Hail (1.00 in)
	08/13/10 17:21 CST		0	Source: Amateur Radio
The hail fell at the intersection of U.S. Highway 52 and Interstate 90.				
OLMSTED COUNTY --- 3.4 SSE ROCHESTER [43.99, -92.43], 3.5 SSW ROCHESTER [43.99, -92.50], 3.4 W ROCHESTER [44.04, -92.54], 3.3 NNW ROCHESTER [44.08, -92.48], 1.9 NE ROCHESTER [44.05, -92.44]				
	08/13/10 17:21 CST		0	Flood (due to Heavy Rain)
	08/13/10 21:30 CST		0	Source: Broadcast Media
Street flooding occurred through portions of Rochester. Also, at one local business, the water rose high enough to get into cars.				
OLMSTED COUNTY --- 0.7 N EYOTA [43.99, -92.23]				
	08/13/10 17:41 CST		0	Hail (0.88 in)
	08/13/10 17:41 CST		0	Source: Trained Spotter
WINONA COUNTY --- 1.5 SSE THE ARCHES [43.98, -91.81]				
	08/13/10 17:42 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 17:42 CST		0	Source: Emergency Manager
Several trees were blown down and water was over some roads in the Farmers Park area.				
WINONA COUNTY --- 2.9 SSE ST CHARLES [43.93, -92.06]				
	08/13/10 18:00 CST		0	Hail (0.75 in)
	08/13/10 18:00 CST		0	Source: Emergency Manager
WINONA COUNTY --- 0.8 SSE ST CHARLES [43.96, -92.07], 1.6 ESE ST CHARLES [43.96, -92.05], 1.5 ENE ST CHARLES [43.98, -92.05], 0.7 NNE ST CHARLES [43.98, -92.07]				
	08/13/10 18:30 CST		0	Flood (due to Heavy Rain)
	08/13/10 22:30 CST		0	Source: Emergency Manager
Street flooding was reported in the city of St. Charles.				
FILLMORE COUNTY --- 1.6 WSW CHATFIELD [43.84, -92.21], 1.6 SW CHATFIELD [43.83, -92.20], 0.7 SSW CHATFIELD [43.84, -92.19], 0.7 WSW CHATFIELD [43.85, -92.19]				
	08/13/10 22:34 CST		0	Flood (due to Heavy Rain)
	08/14/10 02:30 CST		0	Source: Law Enforcement
Water was over County Road 2 west of Chatfield.				
A surface boundary extended into southeast Minnesota from an area of low pressure over southwest Minnesota on the afternoon of August 13th. Favorable shear and instability existed along this boundary for supercell thunderstorms, which did develop in the early afternoon hours. These thunderstorms produced tornadoes, along with severe thunderstorm winds, large hail and flooding.				
HOUSTON COUNTY --- 3.0 NE HOKAH [43.80, -91.29]				
	08/20/10 13:41 CST		0.25K	Thunderstorm Wind (EG 52 kt)
	08/20/10 13:41 CST		0	Source: Amateur Radio
A few trees were blown down northeast of Hokah.				
Severe thunderstorms developed during the early afternoon of August 20th and produced some isolated wind damage in Houston County.				

WISCONSIN, Southwest

LA CROSSE COUNTY --- 1.1 SW HERRINGTON [43.77, -91.20], 1.2 ENE CALVERT [43.76, -91.20], 0.4 S LA CROSSE [43.79, -91.25], 1.2 S WEST LA CROSSE [43.83, -91.25], 0.0 NE WEST LA CROSSE [43.85, -91.25], 0.9 NE WEST LA CROSSE [43.86, -91.24], 0.8 WSW MEDARY [43.86, -91.21]

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	08/08/10 04:45 CST		90K	Flood (due to Heavy Rain)
	08/08/10 06:45 CST		0	Source: NWS Employee

Street flooding occurred in parts of the city of La Crosse after heavy rains fell during the morning hours. Flooding along Diagonal Road caused a house foundation to collapse filling the basement with mud. The house was later condemned and razed. Losey Avenue near Main Street was under water temporarily. The automated weather observing equipment at the La Crosse Airport recorded 1.65 inches of rainfall in one hour, ending at 0453 CST, while 2.11 inches fell in the two hours between 0341 CST and 0541 CST. Also, 2.21 inches of rain was observed at the La Crosse National Weather Service office between the hours of 0324 CST and 0533 CST.

CRAWFORD COUNTY --- MT ZION [43.25, -90.73]

08/08/10 05:30 CST	0	Heavy Rain
08/08/10 06:30 CST	0	Source: Trained Spotter

In one hour, 2.21 inches of rain was measured.

GRANT COUNTY --- 1.5 WNW BOSCOBEL [43.14, -90.73], 0.9 SW POTOSI [42.67, -90.73], 3.4 S TENNYSON [42.63, -90.67], 2.5 SW FAIRPLAY [42.51, -90.61], 1.6 S HAZEL GREEN [42.51, -90.43], 2.1 SSE MUSCODA [43.15, -90.43]

08/08/10 07:00 CST	0.30M	Flood (due to Heavy Rain)
08/08/10 12:00 CST	0	Source: Emergency Manager

Widespread rainfall amounts of 2 to 3 inches fell in two hours across much of the eastern half of Grant County. Many roads throughout the county were underwater and closed temporarily, including U.S. Highway 151 near Platteville. Damage did occur to some roads as well as to homes and businesses. The cities that had the worst impacts included Boscobel, Fennimore, Livingston, Cuba City, Kieler, and Hazel Green.

GRANT COUNTY --- 2.0 NW CUBA CITY [42.62, -90.46]

08/08/10 07:30 CST	0	Heavy Rain
08/08/10 09:30 CST	0	Source: COOP Observer

In two hours, 3.69 inches of rain fell 2 miles northwest of Cuba City.

GRANT COUNTY --- 2.2 ENE ROCKVILLE [42.73, -90.64], 2.2 ENE ROCKVILLE [42.73, -90.64], 2.1 ENE ROCKVILLE [42.73, -90.64], 2.1 ENE ROCKVILLE [42.73, -90.64]

08/08/10 12:30 CST	0	Flood (due to Heavy Rain)
08/08/10 20:45 CST	0	Source: River/Stream Gage

Locally heavy rains pushed the Platte River near Rockville out of its banks on August 8th. The river exceeded the flood stage by almost a foot and a half, cresting at 10.43 feet.

Thunderstorms developed along a warm front in central Minnesota during the evening of August 7th. These storms moved southeast during the overnight and early morning hours of August 8th, bringing widespread rainfall amounts of two to three inches to the area. Flooding was observed across the eastern half of Grant County, which caused damages to roads, homes and other structures. Also, street flooding was observed in parts of the city of La Crosse (La Crosse County) due to the quick heavy rains.

GRANT COUNTY --- 1.1 SSE LANCASTER [42.84, -90.71]

08/09/10 00:05 CST	20K	Thunderstorm Wind (EG 60 kt)
08/09/10 00:05 CST	0	Source: Newspaper

A large tree was uprooted by strong thunderstorm winds. The tree fell on and damaged an outbuilding, while also causing damage to utility lines that were pulled from the ground.

RICHLAND COUNTY --- 1.0 E BASSWOOD [43.27, -90.48]

08/09/10 00:21 CST	15K	Thunderstorm Wind (EG 55 kt)
08/09/10 00:21 CST	0	Source: Emergency Manager

Thunderstorm winds blew the roof off of a shed, as well as damaging trees along Town Hall Road, which is just east of the town of Basswood.

RICHLAND COUNTY --- 1.7 W LOYD [43.42, -90.28]

08/09/10 00:38 CST	20K	Thunderstorm Wind (EG 55 kt)
08/09/10 00:38 CST	0	Source: Emergency Manager

Damage occurred to the roof of a home, as well as to a shed at a homestead along County Road NN. Also, trees and power lines were blown down between Ithaca and Cazenovia.

RICHLAND COUNTY --- 0.5 NNE YUBA [43.54, -90.43], 0.6 E YUBA [43.53, -90.42], 0.5 ESE YUBA [43.53, -90.42], 0.5 N YUBA [43.54, -90.43]

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	08/09/10 08:45 CST		0	Flood (due to Heavy Rain)
	08/09/10 11:00 CST		0	Source: Emergency Manager

Flooding was reported near County Road C, outside of Yuba.

VERNON COUNTY --- 0.7 NNE CHASEBURG [43.66, -91.10], 0.7 NNE CHASEBURG [43.66, -91.09], 0.7 NNE CHASEBURG [43.66, -91.09], 0.6 N CHASEBURG [43.66, -91.10]				
	08/09/10 10:00 CST		0	Flood (due to Heavy Rain)
	08/09/10 16:00 CST		0	Source: Emergency Manager

State Highway 162 in Chaseburg was underwater.

VERNON COUNTY --- 3.0 W LA FARGE [43.57, -90.69], 2.5 W LA FARGE [43.57, -90.68], 2.1 W LA FARGE [43.57, -90.67], 1.5 WSW LA FARGE [43.56, -90.66], 1.5 WSW LA FARGE [43.56, -90.66], 2.0 WSW LA FARGE [43.55, -90.66], 3.1 W LA FARGE [43.57, -90.69]				
	08/09/10 10:00 CST		0	Flood (due to Heavy Rain)
	08/09/10 16:00 CST		0	Source: Emergency Manager

Tunnelville Road was underwater after heavy rains fell in the area.

A line of thunderstorms developed in western Iowa ahead of a trough of low pressure in the Central Plains on the afternoon of August 8th. These storms moved into southwest Wisconsin during the early morning hours of August 9th. Strong winds caused damage across the area, while heavy rains combined with saturated conditions to cause flooding, leading to road closures in parts of the area.

CLARK COUNTY --- 4.2 WNW GREENWOOD [44.80, -90.67]				
	08/11/10 01:20 CST		0.25K	Thunderstorm Wind (EG 50 kt)
	08/11/10 01:20 CST		0	Source: Public

Trees were blown as thunderstorms passed, which blocked County Road MM.

Thunderstorms developed over west central Wisconsin as an upper level system moved across the region. These storms moved east into central Wisconsin, which brought strong winds to the area during the early morning hours of August 11th.

(WI-Z054) CRAWFORD				
	08/11/10 13:45 CST		0	Heat
	08/12/10 15:00 CST		0	

The combination of very warm temperatures and high dew points led to extreme apparent temperature values across southwest Wisconsin on the 11th and 12th. The apparent temperature at Prairie Du Chien (Crawford County) was at or above 105 degrees on the afternoon of the 11th, as well as in the late morning and afternoon on the 12th. The maximum apparent temperature was 112 degrees, which occurred on the morning of August 12th.

BUFFALO COUNTY --- 3.8 SE NELSON [44.38, -91.95]				
	08/13/10 03:35 CST		2K	Thunderstorm Wind (EG 60 kt)
	08/13/10 03:39 CST		0	Source: Public

Trees were blown down between Alma and Nelson.

BUFFALO COUNTY --- ALMA [44.32, -91.92]				
	08/13/10 04:00 CST		0	Heavy Rain
	08/13/10 06:00 CST		0	Source: COOP Observer

In two hours, 3.45 inches of rain fell.

TREMPEALEAU COUNTY --- INDEPENDENCE [44.35, -91.42]				
	08/13/10 04:10 CST		5K	Thunderstorm Wind (EG 50 kt)
	08/13/10 04:10 CST		0	Source: Trained Spotter

Many trees were blown down, while tin was blown off of a barn roof.

TREMPEALEAU COUNTY --- 1.0 N INDEPENDENCE [44.36, -91.42]				
	08/13/10 04:15 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 04:15 CST		0	Source: Amateur Radio

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Large tree limbs were blown down across power lines.				
TREMPEALEAU COUNTY --- 2.0 NW BLAIR [44.32, -91.26]				
	08/13/10 04:15 CST		0	Heavy Rain
	08/13/10 06:00 CST		0	Source: COOP Observer
Total rainfall measured was 2.00 inches.				
TREMPEALEAU COUNTY --- 2.0 ENE PIGEON FALLS [44.44, -91.18]				
	08/13/10 04:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 04:25 CST		0	Source: Emergency Manager
State Highway 121 was closed temporarily due to downed power lines.				
TREMPEALEAU COUNTY --- 2.8 ENE BLAIR [44.31, -91.17]				
	08/13/10 04:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 04:25 CST		0	Source: Emergency Manager
Power lines were blown down, which temporarily closed State Highway 95.				
TREMPEALEAU COUNTY --- INDEPENDENCE [44.35, -91.42], 0.6 W INDEPENDENCE [44.35, -91.43], 1.0 NNW INDEPENDENCE [44.36, -91.43], 1.1 NNE INDEPENDENCE [44.37, -91.41]				
	08/13/10 05:00 CST		30K	Flash Flood (due to Heavy Rain)
	08/13/10 12:00 CST		0	Source: Trained Spotter
Between the hours of 4:15 a.m. and 6:00 a.m. CST, 4.00 inches of rain fell in Independence. This caused flash flooding in the Independence area with water over various roadways and culverts. Some area roads were washed out while creeks were flowing out of their banks.				
TREMPEALEAU COUNTY --- WHITEHALL [44.37, -91.32]				
	08/13/10 05:00 CST		0	Heavy Rain
	08/13/10 08:00 CST		0	Source: COOP Observer
In three hours, 3.17 inches of rain fell.				
TREMPEALEAU COUNTY --- 0.3 SSE ELK CREEK [44.43, -91.40]				
	08/13/10 05:09 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 05:09 CST		0	Source: NWS Employee
Many trees were blown down in the Elk Creek area.				
TREMPEALEAU COUNTY --- BLAIR [44.30, -91.23]				
	08/13/10 05:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	08/13/10 05:25 CST		0	Source: Law Enforcement
Trees and power lines were blown down in the city of Blair.				
TREMPEALEAU COUNTY --- 2.0 N WHITEHALL [44.40, -91.32]				
	08/13/10 05:27 CST		0	Hail (1.00 in)
	08/13/10 05:27 CST		0	Source: Public
BUFFALO COUNTY --- 6.4 NNW DODGE [44.22, -91.60], 8.1 N DODGE [44.25, -91.55], 2.9 NE MONDOVI ARPT [44.60, -91.54], 1.9 N MAXVILLE [44.60, -92.00], 1.1 WNW NELSON [44.43, -92.02], 1.0 NNW ALMA [44.33, -91.93], 3.5 S COCHRANE [44.18, -91.83], 4.9 NW DODGE [44.18, -91.62]				
	08/13/10 05:30 CST		1.69M	Flash Flood (due to Heavy Rain)
	08/15/10 14:30 CST		0	Source: Emergency Manager
Various roads were closed across the county including County Road EE, which had buckled. Also, 31 mudslides were reported, while multiple homes in Cream had water in their basements. Therefore, significant damage occurred to some roads, homes and businesses. The areas most affected by flooding, mudslides and road closures were along Waumandee Creek from Gilmanton to south of Waumandee.				
TREMPEALEAU COUNTY --- 1.0 N TREMPEALEAU [44.01, -91.43]				
	08/13/10 05:30 CST		0	Heavy Rain
	08/13/10 06:45 CST		0	Source: Public

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Rainfall amounted to 2.20 inches between 5:30 a.m. and 6:45 a.m. CST, with 1.80 inches falling in the first 45 minutes.

VERNON COUNTY --- 1.2 NW VALLEY [43.66, -90.55]

08/13/10 05:30 CST	0	Heavy Rain
08/13/10 09:30 CST	0	Source: Public

Total measured rainfall was 3.75 inches.

JACKSON COUNTY --- TAYLOR [44.32, -91.12]

08/13/10 05:35 CST	5K	Thunderstorm Wind (EG 50 kt)
08/13/10 05:38 CST	0	Source: Law Enforcement

Many trees and power poles were blown down across western Jackson County. Tree damage was reported in and around the cities of Taylor, York, and Northfield. This caused power outages to many towns and rural customers. Also, 3.90 inches of rain was measured in the city of Taylor between 5:25 a.m. and 8:00 a.m. CST.

JACKSON COUNTY --- 3.7 SSE ALMA CENTER [44.38, -90.88]

08/13/10 05:43 CST	5K	Thunderstorm Wind (EG 50 kt)
08/13/10 05:47 CST	0	Source: Emergency Manager

Many trees and power lines were blown down in the central part of the county, which included the cities of Alma Center, Merrillan and Black River Falls. The damage caused power outages to towns and rural areas.

MONROE COUNTY --- 4.0 W SPARTA [43.93, -90.90]

08/13/10 06:05 CST	0.20K	Thunderstorm Wind (EG 50 kt)
08/13/10 06:05 CST	0	Source: Trained Spotter

Damage was reported to a rural street sign along Garden Avenue on the county line between Monroe and La Crosse Counties.

MONROE COUNTY --- TOMAH [43.98, -90.50]

08/13/10 06:22 CST	1K	Thunderstorm Wind (EG 50 kt)
08/13/10 06:22 CST	0	Source: Law Enforcement

A tree was blown down, while damage was also reported to a parking lot light at a local business in Tomah.

MONROE COUNTY --- WILTON [43.82, -90.53]

08/13/10 06:29 CST	0.25K	Thunderstorm Wind (EG 50 kt)
08/13/10 06:29 CST	0	Source: Law Enforcement

Trees were blown down in Wilton.

BUFFALO COUNTY --- 1.4 ESE PRAAG [44.37, -91.72], 1.7 ESE PRAAG [44.37, -91.72], 2.2 SE PRAAG [44.36, -91.71], 2.2 SE PRAAG [44.36, -91.72], 1.6 SE PRAAG [44.36, -91.72]

08/13/10 06:30 CST	10K	Flash Flood (due to Heavy Rain)
08/13/10 14:30 CST	0	Source: Emergency Manager

A mudslide hit and damaged a house, while some flooding was also reported.

BUFFALO COUNTY --- 1.4 SW WAUMANDEE [44.29, -91.72], 2.1 ESE GLENCOE [44.27, -91.74], 2.5 ESE GLENCOE [44.27, -91.73], 1.1 SW WAUMANDEE [44.29, -91.71]

08/13/10 06:30 CST	50K	Flood (due to Heavy Rain)
08/13/10 12:30 CST	0	Source: Emergency Manager

Two homes were flooded with water up to the first floor windows, causing significant damage to both homes.

TREMPEALEAU COUNTY --- 2.5 SW ARCADIA [44.23, -91.54], 1.8 ENE HEGG [44.23, -91.17], 3.5 SE OSSEO [44.55, -91.17], 4.2 WSW ELEVA [44.55, -91.54]

08/13/10 06:30 CST	0.26M	Flash Flood (due to Heavy Rain)
08/15/10 08:00 CST	0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Many roads were underwater, while there were also several mudslides reported across the northern part of the county. Driveways and culverts were washed out in the towns of Chimney Rock, Hale, Burnside and Arcadia, while a bridge at Burnside was also washed out. Also, Huskeohs Road was washed out, the Lindberg bridge in Blair was underwater, and Highway 53/121 from Pigeon Falls to the Jackson County line was closed. Roads underwater continued to impact these areas through 8:00 a.m. CST on Sunday, August 15th.				
BUFFALO COUNTY --- 1.4 ENE TREVINO [44.43, -92.05], 2.5 NNW NELSON [44.45, -92.02], 1.9 ENE NELSON [44.43, -91.97], 2.5 E NELSON [44.41, -91.95], 2.6 SE NELSON [44.39, -91.97], 0.7 SSE NELSON [44.41, -91.99]				
	08/13/10 07:00 CST		0.10M	Flash Flood (due to Heavy Rain)
	08/13/10 11:00 CST		0	Source: Trained Spotter

Several mudslides occurred in and around the Nelson area, causing significant damage to the road systems. Several of the smaller creeks were out of their banks and over the bridge crossings. Rainfall between the hours of 3:30 a.m. and 7:30 a.m. CST was estimated to be around five inches.

LA CROSSE COUNTY --- 1.0 NE LA CROSSE [43.81, -91.23], 1.0 NE LA CROSSE [43.81, -91.23], 1.0 NE LA CROSSE [43.81, -91.23], 1.0 NE LA CROSSE [43.81, -91.23]				
	08/13/10 07:00 CST		0	Flood (due to Heavy Rain)
	08/13/10 09:00 CST		0	Source: Amateur Radio

Three feet of standing water was reported at the intersection of Cass Street and 15th Street South. Street flooding was reported elsewhere throughout the city of La Crosse.

JUNEAU COUNTY --- 2.0 NNE LYNDON STATION [43.75, -89.88]				
	08/13/10 07:10 CST		0	Thunderstorm Wind (EG 58 kt)
	08/13/10 07:10 CST		0	Source: Trained Spotter

A wind gust of 67 mph was estimated along State Highway 82 near the Juneau and Adams County border.

JUNEAU COUNTY --- LYNDON STATION [43.72, -89.90]				
	08/13/10 07:11 CST		0	Thunderstorm Wind (MG 60 kt)
	08/13/10 07:11 CST		0	Source: Trained Spotter

A thunderstorm wind gust of 69 mph was measured at Lyndon Station.

VERNON COUNTY --- 1.6 N SPRINGVILLE [43.60, -90.95]				
	08/13/10 09:30 CST		0.49M	Lightning
	08/14/10 20:30 CST		0	Source: Newspaper

Lightning struck a rural church northwest of Viroqua as thunderstorms moved through the morning of August 13th. The area of the church that was struck smoldered for a day before the fire broke out in the afternoon of August 14th. The entire church was destroyed by the fire.

RICHLAND COUNTY --- 3.6 N VIOLA [43.55, -90.67], 2.4 N CAZENOVIA [43.55, -90.19], 1.5 ENE BEAR VLY [43.31, -90.19], 2.8 NNW RICHLAND CENTER [43.37, -90.39], 2.5 WSW BOSSTOWN [43.37, -90.67]				
	08/13/10 11:00 CST		0	Flood (due to Heavy Rain)
	08/15/10 08:00 CST		0	Source: Law Enforcement

Many roads across the northern half of the county were closed due to high water. State Highway 80 was closed in several places, as was State Highway 56 east of Viola and County Highway N and State Highway 58 near Ithica. Also, Willow Creek and Melancthon Creek, as well as their smaller tributaries were high or out of their banks in many places.

VERNON COUNTY --- 0.4 NW HILLSBORO KCKAPOO AR [43.65, -90.33], 0.5 N HILLSBORO KCKAPOO AR [43.66, -90.33], 0.5 NNW HILLSBORO KCKAPOO AR [43.66, -90.33], 0.4 NW HILLSBORO KCKAPOO AR [43.65, -90.33]				
	08/13/10 11:00 CST		0	Flood (due to Heavy Rain)
	08/13/10 19:30 CST		0	Source: River/Stream Gage

Locally heavy rains pushed the South Branch of the Baraboo River out of its banks in Hillsboro on August 13th. The river exceeded the flood stage by two and a half feet, cresting at 15.56 feet.

VERNON COUNTY --- 4.4 E TRIPPVILLE [43.72, -90.31], 0.5 NW ONTARIO [43.73, -90.59], 3.9 NNE STODDARD [43.72, -91.19], 0.3 W GENOA [43.58, -91.22], 0.2 N DE SOTO [43.42, -91.20], 0.6 ENE SUGAR GROVE [43.42, -90.67], 2.3 WSW LA FARGE [43.56, -90.67], 1.5 SE WOOD [43.55, -90.31]				
	08/13/10 11:00 CST		0.93M	Flash Flood (due to Heavy Rain)
	08/15/10 14:00 CST		0	Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
At least 30 roads throughout the county were closed due to high water and washouts. Some of the major roads closed included State Highways 131 and 33 around Ontario, as well as State Highway 162 near Chaseburg. Also, the West Fork Kickapoo River was over the intersection of State Highway 56 and County Road S.				

RICHLAND COUNTY --- 0.5 N YUBA [43.54, -90.43], 0.5 N YUBA [43.54, -90.43], 0.6 N YUBA [43.54, -90.43], 0.6 N YUBA [43.54, -90.43], 0.7 N YUBA [43.54, -90.43], 0.8 N YUBA [43.54, -90.43], 0.8 N YUBA [43.54, -90.43]

08/13/10 11:38 CST	0	Flood (due to Heavy Rain)
08/13/10 23:00 CST	0	Source: Emergency Manager

The Pine River was high or out of its banks in many locations. At County Road C, it was close to topping the bridge.

JACKSON COUNTY --- 1.2 NW REQUA [44.59, -91.15], 6.0 E PRICE [44.59, -90.93], 5.4 NE NORTH BRANCH [44.51, -90.93], 4.3 NNE MERRILLAN [44.51, -90.81], 1.5 SSW SHAMROCK [44.16, -90.81], 1.6 WNW BUCKHOLZ CORNERS [44.16, -91.15]

08/13/10 12:00 CST	0.30M	Flood (due to Heavy Rain)
08/14/10 12:00 CST	0	Source: Other Federal Agency

Various roads were closed across parts of Jackson county and sustained damage from flooding. The flooding also caused damage to some parks and utility systems.

TREMPEALEAU COUNTY --- 0.3 N ELK CREEK [44.43, -91.40], 1.3 ENE ELK CREEK [44.44, -91.37], 1.0 E ELK CREEK [44.43, -91.38], 0.4 SE ELK CREEK [44.43, -91.39], 1.6 SSW ELK CREEK [44.41, -91.41], 1.8 SW ELK CREEK [44.41, -91.43]

08/13/10 13:18 CST	0	Flood (due to Heavy Rain)
08/13/10 17:00 CST	0	Source: NWS Employee

Elk Creek was flowing out of its banks.

VERNON COUNTY --- 0.4 WNW ONTARIO [43.72, -90.59], 0.4 WNW ONTARIO [43.72, -90.59], 0.4 W ONTARIO [43.72, -90.59], 0.5 W ONTARIO [43.72, -90.59]

08/13/10 14:15 CST	0	Flood (due to Heavy Rain)
08/13/10 18:45 CST	0	Source: River/Stream Gage

Locally heavy rains pushed the Kickapoo River out of its banks in Ontario on August 13th. The river exceeded the flood stage by a half foot, cresting at 18.52 feet.

GRANT COUNTY --- 0.4 SE CUBA CITY [42.60, -90.42], 0.5 WSW CUBA CITY [42.60, -90.44], 1.0 NNW CUBA CITY [42.61, -90.44], 0.9 NNE CUBA CITY [42.61, -90.42]

08/13/10 15:56 CST	0	Flood (due to Heavy Rain)
08/13/10 18:00 CST	0	Source: Fire Department/Rescue

Street flooding was reported after heavy rains in Cuba City.

VERNON COUNTY --- 1.8 N ROCKTON [43.68, -90.61], 1.9 N ROCKTON [43.68, -90.59], 1.6 NE ROCKTON [43.67, -90.58], 0.7 SE ROCKTON [43.64, -90.59], 0.8 SW ROCKTON [43.64, -90.61], 1.1 N ROCKTON [43.67, -90.60]

08/13/10 16:00 CST	0	Flood (due to Heavy Rain)
08/14/10 09:00 CST	0	Source: Public

The Kickapoo River was over Bridge 8 along Winchell Valley Road, as well as over County Highway P near Bridge 10.

VERNON COUNTY --- 0.8 WNW LA FARGE [43.58, -90.64], 0.7 WNW LA FARGE [43.57, -90.64], 0.7 WNW LA FARGE [43.57, -90.64], 0.8 WNW LA FARGE [43.58, -90.64]

08/13/10 19:45 CST	0	Flood (due to Heavy Rain)
08/14/10 12:00 CST	0	Source: River/Stream Gage

Locally heavy rains pushed the Kickapoo River out of its banks in La Farge on August 13th and 14th. The river exceeded the flood stage by a half foot, cresting at 12.54 feet.

VERNON COUNTY --- 0.4 NE READSTOWN [43.45, -90.76], 0.3 E READSTOWN [43.45, -90.77], 0.4 SE READSTOWN [43.45, -90.77], 0.6 SSE READSTOWN [43.44, -90.76], 0.6 SE READSTOWN [43.44, -90.76], 0.4 ENE READSTOWN [43.45, -90.76], 0.5 NE READSTOWN [43.45, -90.76]

08/13/10 20:45 CST	0	Flood (due to Heavy Rain)
08/16/10 14:15 CST	0	Source: River/Stream Gage

Locally heavy rains pushed the Kickapoo River out of its banks in Readstown from August 13th through the 16th. The river exceeded the flood stage by almost two feet, cresting at 13.98 feet.

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
VERNON COUNTY --- 2.7 ESE LIBERTY [43.51, -90.68], 2.8 NE KICKAPOO CENTER [43.50, -90.67], 2.7 NE KICKAPOO CENTER [43.50, -90.67], 2.7 ESE LIBERTY [43.51, -90.68]				
	08/14/10 04:00 CST		0	Flood (due to Heavy Rain)
	08/16/10 06:00 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Kickapoo River out of its banks in Viola from August 14th through the 16th. The river exceeded the flood stage by over three feet, cresting at 17.25 feet.				
CRAWFORD COUNTY --- 0.5 SSW SOLDIERS GROVE [43.39, -90.77], 0.5 SSW SOLDIERS GROVE [43.39, -90.77], 0.5 SW SOLDIERS GROVE [43.39, -90.78], 0.4 SW SOLDIERS GROVE [43.40, -90.78], 0.4 SW SOLDIERS GROVE [43.40, -90.78], 0.5 SW SOLDIERS GROVE [43.39, -90.78]				
	08/14/10 06:00 CST		0	Flood (due to Heavy Rain)
	08/17/10 07:00 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Kickapoo River out of its banks in Soldiers Grove from August 14th through the 17th. The river exceeded the flood stage by over a foot and a half, cresting at 14.68 feet.				
CRAWFORD COUNTY --- 3.2 NNW BELL CENTER [43.32, -90.85], 3.1 NNW BELL CENTER [43.32, -90.85], 3.0 NNW BELL CENTER [43.32, -90.85], 3.0 NNW BELL CENTER [43.32, -90.85], 3.1 NNW BELL CENTER [43.32, -90.85], 3.2 NNW BELL CENTER [43.32, -90.85]				
	08/14/10 07:00 CST		0	Flood (due to Heavy Rain)
	08/18/10 13:00 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Kickapoo River out of its banks in Gays Mills from August 14th through the 18th. The river exceeded the flood stage by almost two and a half feet, cresting at 15.43 feet.				
TREMPEALEAU COUNTY --- 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.7 W PINE CREEK [44.13, -91.55], 1.9 W PINE CREEK [44.13, -91.56], 1.8 W PINE CREEK [44.13, -91.56], 1.7 W PINE CREEK [44.13, -91.55]				
	08/15/10 07:00 CST		0	Flood (due to Heavy Rain)
	08/18/10 11:00 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Trempealeau River at Dodge out of its banks from August 15th through the 18th. The river exceeded the flood stage by over two feet, cresting at 11.08 feet.				
CRAWFORD COUNTY --- 0.4 WNW STEUBEN [43.18, -90.86], 0.8 WNW STEUBEN [43.18, -90.86], 0.8 WNW STEUBEN [43.18, -90.86], 0.4 WNW STEUBEN [43.18, -90.86]				
	08/16/10 05:00 CST		0	Flood (due to Heavy Rain)
	08/19/10 19:00 CST		0	Source: River/Stream Gage
Locally heavy rains pushed the Kickapoo River out of its banks in Steuben from August 16th through the 19th. The river exceeded the flood stage by almost a foot and a half, cresting at 13.4 feet.				
A line of severe thunderstorms moved out of Minnesota and into western and central Wisconsin during the morning hours of August 13th. Strong winds created tree and minor structural damage, while widespread heavy rain of 3 to 4 inches caused some flash flooding, road closures, and rises along rivers, streams and creeks. Significant damage occurred to roads, homes and businesses in west central Wisconsin due to the flooding with an estimated \$2.78 million in damage to public sector infrastructure. More thunderstorms developed south of the initial storms across southwest Wisconsin, which brought heavy rains and caused flooding problems into the afternoon hours.				
LA CROSSE COUNTY --- LA CROSSE [43.80, -91.25]				
	08/20/10 13:40 CST		0.75K	Thunderstorm Wind (EG 52 kt)
	08/20/10 13:40 CST		0	Source: Law Enforcement
Power lines were blown down in the cities of La Crosse and Onalaska.				
LA CROSSE COUNTY --- ONALASKA [43.88, -91.23]				
	08/20/10 13:42 CST		0.25K	Thunderstorm Wind (EG 52 kt)
	08/20/10 13:42 CST		0	Source: Trained Spotter
Large tree limbs were blown down.				
LA CROSSE COUNTY --- 1.4 ESE NEW AMSTERDAM [43.98, -91.29]				
	08/20/10 14:09 CST		5K	Lightning
	08/20/10 14:09 CST		0	Source: Amateur Radio

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Lightning hit a large staple holding the wooden trusses together in the attic of a house. The fire was confined by firefighters to the attic.				
RICHLAND COUNTY --- 1.0 NW LONE ROCK [43.19, -90.21]				
	08/20/10 15:00 CST		0.25K	Thunderstorm Wind (EG 60 kt)
	08/20/10 15:00 CST		0	Source: Law Enforcement
Trees were blown down near the intersection of U.S. Highway 14 and State Highway 130.				
RICHLAND COUNTY --- 2.0 E HUB CITY [43.47, -90.31]				
	08/20/10 15:09 CST		0.25K	Thunderstorm Wind (EG 52 kt)
	08/20/10 15:09 CST		0	Source: Law Enforcement
Trees were blown down along Hawkins Creek.				
ADAMS COUNTY --- 4.6 SE PLAINVILLE [43.67, -89.76]				
	08/20/10 15:35 CST		0	Thunderstorm Wind (EG 50 kt)
	08/20/10 15:35 CST		0	Source: Trained Spotter
A trained spotter estimated a thunderstorm wind gust at 58 mph.				
JUNEAU COUNTY --- 0.9 SE LYNDON STATION [43.71, -89.89]				
	08/20/10 15:35 CST		0.25K	Thunderstorm Wind (EG 52 kt)
	08/20/10 15:35 CST		0	Source: Amateur Radio
Tree limbs were blown down in and south of Lyndon Station.				
Thunderstorms developed early in the afternoon of August 20th ahead of a cold front. As these storms moved across western Wisconsin they produced severe wind gusts that knocked down some trees and power lines. A lightning strike also started a structure fire north of Holmen (La Crosse County).				
BUFFALO COUNTY --- 2.9 ENE TELL [44.39, -91.81], 2.8 ENE TELL [44.39, -91.82], 2.7 ENE TELL [44.39, -91.82], 2.8 ENE TELL [44.39, -91.82], 2.9 ENE TELL [44.39, -91.81]				
	08/31/10 19:22 CST		0	Flash Flood (due to Heavy Rain)
	08/31/10 22:30 CST		0	Source: Law Enforcement
A mudslide pushed water onto State Highway 37 southwest of the intersection with County Road N. A 24 hour total (ending at 6 a.m. CST) of 3.37 inches of rain was reported at Alma Lock and Dam 4.				
VERNON COUNTY --- 3.2 NW LIBERTY POLE [43.51, -90.95], 1.5 S VIROQUA [43.53, -90.88]				
	08/31/10 20:15 CST		27K	Thunderstorm Wind (EG 52 kt)
	08/31/10 20:18 CST		1K	Source: NWS Storm Survey
A swath of wind damage was found across central Vernon County southwest through south of Viroqua along County Road NN and Getter Road. In this area, approximately 4 miles southwest of Viroqua, a barn was damaged and a roof was taken off a garage. Farther east along Getter Road, a barn was leveled, a small metal shed was destroyed and a field of sunflowers was damaged. The damage was initially believed to be caused by a tornado, but the storm survey did not find sufficient evidence to classify this as a tornado.				
Thunderstorms developed ahead of a cold front and tracked across western Wisconsin during the evening of August 30th. These thunderstorms produced some wind damage and a mudslide east of Alma (Buffalo County).				